PCT/EP98/08382

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SEQUENZPR534 Rec'd PCT/PT: 03 JUL 2000

(1) ALGEMEINE INFORMATION:

- (i) ANMELDER:
 - (A) NAME: BASF Aktiengesellschaft
 - (B) STRASSE: Carl Bosch Strasse
 - (C) ORT: Ludwigshafen
 - (D) BUNDESLAND: Rheinland-Pfalz
 - (E) LAND: Germany
 - (F) POSTLEITZAHL: D-67056
- (ii) ANMELDETITEL: Orotidin-5'-Phosphatdecarboxylase-Gen,
 Genkonstrukt enthaltend dieses Gen und seine Verwendung
- (iii) ANZAHL DER SEQUENZEN: 2
- (iv) COMPUTER-LESBARE FORM:
 - (A) DATENTRÄGER: Floppy disk
 - (B) COMPUTER: IBM PC compatible
 - (C) BETRIEBSSYSTEM: PC-DØS/MS-DOS
 - (D) SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPA)
- (2) INFORMATION ZU SEQ ID NO: A
 - (i) SEQUENZ CHARAKTERIŞTIKA:
 - (A) LÄNGE: 1380 Basenpaare
 - (B) ART: Nukleinsäure
 - (C) STRANGFORM: Einzel
 - (D) TOPOLOGIE; linear
 - (ii) ART DES MOLEKÜLS: DNS (genomisch)
 - (iii) HYPOTHETISCH: NEIN
 - (iii) ANTISENSE: NEIN
 - (vi) URSPRÜNLICHE HERKUNFT:
 - (A) /ORGANISMUS: Ashbya gossypii
 - (vii) UNMÍTTELBARE HERKUNFT:
 - (É) CLON: ura3
 - (ix) MERKMALE:
 - (A) NAME/SCHLÜSSEL: CDS
 - (B) LAGE: 210..1013
 - (ix) MERKMALE:
 - (A) NAME/SCHLÜSSEL: 5'UTR
 - (B) LAGE: 1..199

(ix) MERKMALE:

(A) NAME/SCHLÜSSEL: 3'UTR

(B) LAGE: 1014..1380

(xi) SEQUENZBESCHREIBUNG: SEQ ID NO: 1:

(xi) SEQUENZBESCHREIBUNG: SEQ ID NO: 1:									
CTCGAGCAAC TCATTGGAAG CCCTTCGCA	A ACGACCTCTA	TATCTCGTCT CAAGTTCCTA	60						
CTATCATGTA TGCTGTCACT ACAGAAAAA	T TTTTGTCTAT	AGCTGGCAAG AAGCACATCA	120						
CATACATTCT GATGGTGTAG GCTCCACAT	C ACAGTAAGCA	TTTGTATAAG GCTGATCACA	180						
TAGGGTGCTA CCGACCTAGC CATTGCCAC	ATG TCA ACG	AAA TCT TAC GCA GAA	233						
	Met Ser Thr	Lys Ser Tyr Ala Glu 5							
AGG GCC AAG GCA CAC AAT TCG CCA	GTT GCT AGA	AAG CTT CTG GCA TTG	281						
Arg Ala Lys Ala His Asn Ser Pro		Lys Leu Leu Ala Leu							
10 15		20							
ATG CAC GAG AAG AAA ACC AAT CTC Met His Glu Lys Lys Thr Asn Leu			329						
25 30	35	40							
TCT AGA AAG CTT CTG GAG CTA GCA	GAC ACG CTG	GGA CCG CAC ATT TGT	377						
Ser Arg Lys Leu Leu Glu Leu Ala									
45	50	55							
CTG CTG AAG ACA CAT GTC GAC ATA			425						
Leu Leu Lys Thr His Val Asp Ile		Phe Asp Ile Glu Thr 70							
60	65								
ACA GTC AAG CCG CTG CAG CAG CTT			473						
Thr Val Lys Pro Leu Gln Gln Leu 75 80		85							
TTC GAG GAC CGC AAG TTC GCT GAC Phe Glu Asp Arg Lys Phe Ala Asp			521						
90 95	Tie Giy Kan	100							
	CCC CAC TICC	CCC CAM AMM ACC AAM	569						
TAC TCC TCC GGC GTG TAC CGT ATC Tyr Ser Ser Gly Val Tyr Arg Ile			209						
105	115	120							
GCA CAC GGC GTC ACC GGC CCC GGT	GTG ATA GCC	GGG CTG AAG GAG GCT	617						
Ala His Gly Val Thr Gly Pro Gly									
125	130	135							
GCG AAA CTG GCC TCA CAG GAA CCC	AGG GGG TTG	CTG ATG CTG GCA GAG	665						
Ala Lys Leu Ala Ser Gln Glu Pro									
140	145	150							

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		Ser	CAG Gln				Ala					Thr				713
			GCG													761
Val	Glu 170	Met	Ala	Lys	Leu	Asp 175	Glu	Asp	Phe	Val	Ile 180	Gly	Phe	Ile	Ala	
			ATG Met													809
			GTT Val													. 857
			GTG Val 220													905
			GGG Gly													953
			CGC Arg													1001
	ACT Thr		TAG	rcta:	rcg (CTGG	CGCC	CA CA	AGTA	(ATA	G GC(GGAT'	rcca			1050
CCG	CCGA	TA (CCATO	CTCAC	SC A	ACCT	r TT T	G TA	ATTAT	ratg	ccc	CTAT	rgc (CCTT	ATTTCC	1110
GAG	TGG:	rgc (CGGGZ	ATCGO	ST T	ATAT	GACG	G GC	AACAA	AGTT	GATA	CTT	rgr :	rcag:	ragcat	1170
GCA:	rccai	ACA (CTTGC	CAGG	T TO	GGG'	rgtgo	G AAC	GCCI	rcgc	CGCC	GAT	AAT T	rcgt?	TTACC	1230
CGC	ACTTO	CGT (GAAGT	TTAT	SC T	TAT	SAAAI	A ATO	CTTC	ACTT	TGGC	CTA	ACT A	AGAGO	CATAA	1290
CTC	GACA	CAA (GCCC	CTTC	CT AC	CACA	CTTC	G AGO	CTGGC	SACT	AAAC	TGAC	CAA (GAAT	ragcaa	1350
ATA	ATTA	GCA Z	AATAI	rgga:	rg co	STTG/	AATT	2								1380

(2) INFORMATION ZU SEQ ID NO: 2:

- (i) SEQUENZ CHARAKTERISTIKA:
 - (A) LÄNGE: 267 Aminosäuren
 - (B) ART: Aminosäure
 - (D) TOPOLOGIE: linear
- (ii) ART DES MOLEKÜLS: Protein
- (xi) SEQUENZBESCHREIBUNG: SEQ ID NO: 2:

Met Ser Thr Lys Ser Tyr Ala Glu Arg Ala Lys Ala His Asn Ser Pro Val Ala Arg Lys Leu Leu Ala Leu Met His Glu Lys Lys Thr Asn Leu Cys Ala Ser Leu Asp Val Arg Thr Ser Arg Lys Leu Leu Glu Leu Ala Asp Thr Leu Gly Pro His Ile Cys Leu Leu Lys Thr His Val Asp Ile Leu Thr Asp Phe Asp Ile Glu Thr Thr Val Lys Pro Leu Gln Gln Leu Ala Ala Lys His Asn Phe Met Ile Phe Glu Asp Arg Lys Phe Ala Asp Ile Gly Asn Thr Val Lys Leu Gln Tyr Ser Ser Gly Val Tyr Arg Ile Ala Glu Trp Ala Asp Ile Thr Asn Ala His Gly Val Thr Gly Pro Gly Val Ile Ala Gly Leu Lys Glu Ala Ala Lys Leu Ala Ser Gln Glu Pro Arg Gly Leu Leu Met Leu Ala Glu Leu Ser Ser Gln Gly Ser Leu Ala Arg Gly Asp Tyr Thr Ala Gly Val Val Glu Met Ala Lys Leu Asp Glu Asp Phe Val Ile Gly Phe Ile Ala Gln Arg Asp Met Gly Gly Arg Ala Asp Gly Phe Asp Trp Leu Ile Met Thr Pro Gly Val Gly Leu Asp Asp Lys Gly Asp Gly Leu Gly Gln Gln Tyr Arg Thr Val Asp Glu Val Val Ser Asp Gly Thr Asp Val Ile Ile Val Gly Arg Gly Leu Phe Asp Lys Gly Arg Asp Pro Lys Val Glu Gly Ala Arg Tyr Arg Lys Ala Gly Trp Glu Ala Tyr Leu Arg Arg Met Gly Glu Thr Ser

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